

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	10/30/2014 10/30/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD0150_01_s_2013_4				
Action/Comments					
Inspector Comments: This LMA has the updated O&M manuals for their district.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD0150_01_s_2013_5				
Action/Comments					
Inspector Comments: This LMA has adequate amount of flood fighting materials in a centralized location.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD0150_01_s_2013_6				
Action/Comments					
Inspector Comments: The crew of this LMA had flood fighting training from DWR.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sutter Slough	Left	0.52	10/30/2014 10/30/2014	Pavel Kazi

LM Start	0.20	Rating **	A/W	Issue No.	3
LM End	0.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331402 °	38.331402 °
				-121.580358 °	-121.580358 °
DWR ID	DWR_RD0150_01_s_2012_3				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA\_2014\_RD0150\_15\_3\_20141021\_00003.jpg



Elderberry bush was found on the landside of the levee. The picture was taken from the crown looking downstream.

LM Start	0.25	Rating **	A	Issue No.	1
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330903 °	38.328212 °
				-121.579848 °	-121.576708 °
DWR ID	DWR_RD0150_01_f_2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2014\_RD0150\_15\_1\_20141104\_00004.jpg



View of the waterside slope of the levee looking upstream.

LM Start	0.44	Rating **	M	Issue No.	2
LM End	0.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.328091 °	38.328606 °
				-121.576640 °	-121.577472 °
DWR ID	DWR_RD0150_01_f_2014_2				
Action/Comments					
Inspector Comments: 2013: Old toe repair unraveling. Bridge at upstream end of site. [2013 Site ID: STR_28-4_R]					

Photo 1 of 2 : FA\_2014\_RD0150\_15\_2\_20141021\_00001.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	10/30/2014 10/30/2014	Pavel Kazi

LM Start	0.44	Rating **	M	Issue No.	2 (cont)
LM End	0.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.328091 °	38.328606 °
				-121.576640 °	-121.577472 °
DWR ID	DWR_RD0150_01_f_2014_2				
Action/Comments					
Inspector Comments: 2013: Old toe repair unraveling. Bridge at upstream end of site. [2013 Site ID: STR_28-4_R]					

Photo 2 of 2 : FA\_2014\_RD0150\_15\_2\_20141021\_00002.jpg



USACE 2013 Photo #2

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	10/31/2014 10/31/2014	Pavel Kazi

LM Start	0.22	Rating **	A	Issue No.	47
LM End	0.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330640 °	38.330640 °
				-121.573957 °	-121.573957 °
DWR ID	DWR_RD0150_02_f_2014_47				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2014\_RD0150\_16\_47\_20141104\_00071.jpg



View of the waterside slope of the levee looking upstream.

LM Start	0.40	Rating **	M	Issue No.	6
LM End	0.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.332717 °	38.332717 °
				-121.572083 °	-121.572083 °
DWR ID	DWR_RD0150_02_s_2012_6				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 2 : FA\_2014\_RD0150\_16\_6\_20141021\_00002.jpg



Updated photo of the slope instability on the waterside of the levee looking upstream during spring 2014 inspection.

LM Start	<b>0.40</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2014\_RD0150\_16\_6\_20141021\_00003.jpg



Slope instability was found on the waterside of the levee looking upstream.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



# Reclamation District No. 0150 Merrit Island



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	10/31/2014 10/31/2014	Pavel Kazi

LM Start	2.10	Rating **	C	Issue No.	53
LM End	2.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.346873 °	38.346873 °
				-121.548518 °	-121.548518 °
DWR ID	DWR_RD0150_02_f_2014_53				
Action/Comments					
Tree or limb					

No Photos

LM Start	2.80	Rating **	N	Issue No.	14
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350041 °	38.350041 °
				-121.536853 °	-121.536853 °
DWR ID	DWR_RD0150_02_s_2012_14				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2014\_RD0150\_16\_14\_20141021\_00009.jpg



View of a tree stump on the landward slope.

LM Start	3.29	Rating **	M	Issue No.	961
LM End	3.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 1 of 6 : FA\_2014\_RD0150\_16\_961\_20141021\_00047.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	10/31/2014 10/31/2014	Pavel Kazi

LM Start	3.29	Rating **	M	Issue No.	961 (cont)	
LM End	3.29	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.355321 °	38.355321 °	
				-121.530902 °	-121.530902 °	
DWR ID	DWR_RD0150_02_s_2012_961					
Action/Comments						
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.						

Photo 2 of 6 : FA\_2014\_RD0150\_16\_961\_20141021\_00049.jpg



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

LM Start	<b>3.29</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 6 : FA\_2014\_RD0150\_16\_961\_20141021\_00048.jpg



View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 02 Sacramento River	Right	7.81	10/31/2014 10/31/2014	Pavel Kazi

LM Start	3.29	Rating **	M	Issue No.	961 (cont)	
LM End	3.29	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.355321 °	38.355321 °	
				-121.530902 °	-121.530902 °	
DWR ID	DWR_RD0150_02_s_2012_961					
Action/Comments						
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.						

Photo 4 of 6 : FA\_2014\_RD0150\_16\_961\_20141021\_00050.jpg



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

LM Start	<b>3.29</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	WS

Photo 5 of 6 : FA\_2014\_RD0150\_16\_961\_20141021\_00045.jpg



View of erosion on the waterward slope looking upstream. Depressions into the slope can be seen in several places.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	10/31/2014 10/31/2014	Pavel Kazi

LM Start	3.29	Rating **	M	Issue No.	961 (cont)	
LM End	3.29	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.355321 °	38.355321 °	
				-121.530902 °	-121.530902 °	
DWR ID	DWR_RD0150_02_s_2012_961					
Action/Comments						
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.						

Photo 6 of 6 : FA\_2014\_RD0150\_16\_961\_20141021\_00046.jpg



Additional view of erosion on the waterward slope looking upstream.  
Note the damaged pump support, pump, and pipe just upstream of the site.

LM Start	3.35	Rating **	A/W	Issue No.	17
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355979 °	38.355979 °
				-121.530288 °	-121.530288 °
DWR ID	DWR_RD0150_02_s_2012_17				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.57	Rating **	M	Issue No.	1
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.370928 °	38.371909 °
				-121.523069 °	-121.523316 °
DWR ID	DWR_RD0150_02_f_2014_1				
Action/Comments					
Inspector Comments: 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013: Tree at upstream end has exposed roots. Some new erosion. [2013 Site ID: SAC_38-5_R]					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	10/31/2014 10/31/2014	Pavel Kazi

LM Start	4.76	Rating **	M	Issue No.	28
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.373485 °	38.373485 °
				-121.523963 °	-121.523963 °
DWR ID	DWR_RD0150_02_s _ 2012_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA\_2014\_RD0150\_16\_28\_20141021\_00018.jpg



Century plant on waterward slope at LM 4.76

LM Start	4.98	Rating **	C	Issue No.	39
LM End	4.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.376392 °	38.376392 °
				-121.525429 °	-121.525429 °
DWR ID	DWR_RD0150_02_s _ 2012_39				
Action/Comments					
Tree stumps.					

No Photos

LM Start	5.14	Rating **	A/W	Issue No.	40
LM End	7.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378674 °	38.414029 °
				-121.525423 °	-121.522991 °
DWR ID	DWR_RD0150_02_s _ 2012_40				
Action/Comments					
Environmental Requirements.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	10/31/2014 10/31/2014	Pavel Kazi

LM Start	5.33	Rating **	C	Issue No.	976
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381126 °	38.381126 °
				-121.524208 °	-121.524208 °
DWR ID	DWR_RD0150_02_s_2012_976				
Action/Comments					
Repair slope instability. Inspector Comments: Cavity located under rock rip rap on waterward slope at the shoulder over an irrigation pipe.					

No Photos

LM Start	5.33	Rating **	M	Issue No.	975
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381126 °	38.381126 °
				-121.524207 °	-121.524207 °
DWR ID	DWR_RD0150_02_s_2013_975				
Action/Comments					
Repair slope instability. Inspector Comments: Depression in the landward slope at the shoulder over an irrigation pipe.					

Photo 1 of 2 : FA\_2014\_RD0150\_16\_975\_20141021\_00051.jpg



View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

LM Start	<b>5.33</b>	Rating **	M	Issue No.	<b>975 (cont)</b>
LM End	<b>5.33</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2014\_RD0150\_16\_975\_20141021\_00052.jpg



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	10/31/2014 10/31/2014	Pavel Kazi

LM Start	5.41	Rating **	M	Issue No.	54
LM End	5.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.382072 °	38.382072 °
				-121.523220 °	-121.523220 °
DWR ID	DWR_RD0150_02_f_2014_54				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 1 : FA\_2014\_RD0150\_16\_54\_20141104\_00076.jpg



View of a slope instability on the waterside of the levee looking towards the toe.

LM Start	6.61	Rating **	M	Issue No.	55
LM End	6.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396518 °	38.396518 °
				-121.514530 °	-121.514530 °
DWR ID	DWR_RD0150_02_f_2014_55				
Action/Comments					
Pipe					
Inspector Comments: The pipe gate needs to be covered on the waterside toe of the levee.					

Photo 1 of 1 : FA\_2014\_RD0150\_16\_55\_20141104\_00077.jpg



An open pipe valve was found without a cover on the waterside toe of the levee.

LM Start	7.34	Rating **	A/W	Issue No.	32
LM End	7.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.406454 °	38.406454 °
				-121.517732 °	-121.517732 °
DWR ID	DWR_RD0150_02_s_2012_32				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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# Reclamation District No. 0150 Merrit Island

View of an animal hole on the landside of the levee looking downstream.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	2.28	Rating **	M	Issue No.	75
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.353811 °	38.353811 °
				-121.565668 °	-121.565668 °
DWR ID	DWR_RD0150_03_f_2014_75				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Newly planted tree was found on the landside slope of the levee.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_75\_20141104\_00121.jpg



A few tree was planted on the landside slope of the levee looking upstream.

LM Start	2.46	Rating **	C	Issue No.	53
LM End	2.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.355272 °	38.355272 °
				-121.563083 °	-121.563083 °
DWR ID	DWR_RD0150_03_s_2014_53				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.60	Rating **	N	Issue No.	11
LM End	2.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.356853 °	38.356853 °
				-121.561565 °	-121.561565 °
DWR ID	DWR_RD0150_03_s_2012_11				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_11\_20141021\_00007.jpg



View of tree stumps on the landward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	2.86	Rating **	M	Issue No.	35
LM End	2.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.360432 °	38.360432 °
				-121.561644 °	-121.561644 °
DWR ID	DWR_RD0150_03_s_2013_35				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 2 : FA\_2014\_RD0150\_17\_35\_20141021\_00027.jpg



Updated picture of the erosion on the waterside slope of the levee during spring 2014 inspection.

LM Start	<b>2.86</b>	Rating **	M	Issue No.	<b>35 (cont)</b>
LM End	<b>2.86</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2014\_RD0150\_17\_35\_20141021\_00028.jpg



Erosion was found on the waterside slope of the levee looking downstream during spring 2013 inspection.

LM Start	2.87	Rating **	N	Issue No.	17
LM End	2.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.360621 °	38.360621 °
				-121.561762 °	-121.561762 °
DWR ID	DWR_RD0150_03_s_2012_17				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_17\_20141021\_00014.jpg



View of tree stumps on the waterward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	2.88	Rating **	M	Issue No.	72
LM End	2.88	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.360737 °	38.360737 °
				-121.561814 °	-121.561814 °
DWR ID	DWR_RD0150_03_s_2014_72				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_72\_20141021\_00074.jpg



A crown depression was found looking upstream.

LM Start	2.93	Rating **	M	Issue No.	76
LM End	2.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.361375 °	38.361375 °
				-121.562134 °	-121.562134 °
DWR ID	DWR_RD0150_03_s_2012_76				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : FA\_2014\_RD0150\_17\_76\_20141021\_00076.jpg



Erosion was found on the waterside of the levee looking upstream. This picture was taken during spring 2012 inspection.

LM Start	<b>2.93</b>	Rating **	M	Issue No.	<b>76 (cont)</b>
LM End	<b>2.93</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2014\_RD0150\_17\_76\_20141021\_00077.jpg



Slope instability was found on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	3.37	Rating **	M	Issue No.	40
LM End	3.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363008 °	38.363008 °
				-121.556751 °	-121.556751 °
DWR ID	DWR_RD0150_03_s_2013_40				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 2 : FA\_2014\_RD0150\_17\_40\_20141104\_00124.jpg



Updated picture of the erosion on the waterside of the levee looking upstream during fall 2014 inspection.

LM Start	<b>3.37</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>3.37</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2014\_RD0150\_17\_40\_20141021\_00032.jpg



Erosion was found on the waterside toe of the levee looking upstream during spring 2013 inspection.

LM Start	3.41	Rating **	N	Issue No.	27
LM End	3.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.363147 °	38.363147 °
				-121.556190 °	-121.556190 °
DWR ID	DWR_RD0150_03_s_2012_27				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_27\_20141021\_00019.jpg



View of tree stumps on the waterside slope looking upstream.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	3.45	Rating **	M	Issue No.	114
LM End	3.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363540 °	38.363540 °
				-121.555555 °	-121.555555 °
DWR ID	DWR_RD0150_03_f_2013_114				
Action/Comments					
Stairway					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_114\_20141021\_00093.jpg



View of steps that were dug on the waterside slope of the levee looking upstream.

LM Start	3.45	Rating **	U	Issue No.	115
LM End	3.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363540 °	38.363540 °
				-121.555554 °	-121.555554 °
DWR ID	DWR_RD0150_03_f_2013_115				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Erosion was found on the landside toe of the levee.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_115\_20141021\_00094.jpg



A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

LM Start	3.47	Rating **	M	Issue No.	98
LM End	3.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363803 °	38.363803 °
				-121.555432 °	-121.555432 °
DWR ID	DWR_RD0150_03_s_2012_98				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Erosion was located on the waterside of the levee looking downstream.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_98\_20141021\_00092.jpg



Erosion was found on the waterside of the levee looking downstream.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	3.75	Rating **	A/W	Issue No.	927
LM End	3.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367305 °	38.367305 °
				-121.554984 °	-121.554984 °
DWR ID	DWR_RD0150_03_s_2012_927				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 2 : FA\_2014\_RD0150\_17\_927\_20141021\_00097.jpg



Slope instability possible due to vehicular traffic on the landside of the levee. The picture was taken from the crown looking upstream during Spring 2011 inspection.

LM Start	<b>3.75</b>	Rating **	A/W	Issue No.	<b>927 (cont)</b>
LM End	<b>3.75</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2014\_RD0150\_17\_927\_20141021\_00098.jpg



Repair minor damage to levee slope along landward ramp at LM 3.75.

LM Start	3.85	Rating **	M	Issue No.	116
LM End	3.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367535 °	38.367535 °
				-121.552815 °	-121.552815 °
DWR ID	DWR_RD0150_03_f_2013_116				
Action/Comments					
Repair slope instability.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	3.93	Rating **	M	Issue No.	117
LM End	3.93	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.368120 °	38.368120 °
				-121.551522 °	-121.551522 °
DWR ID	DWR_RD0150_03_f_2013_117				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_117\_20141021\_00095.jpg



Crown depression was found looking upstream during the fall 2013 inspection.

LM Start	3.95	Rating **	C	Issue No.	48
LM End	3.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.368118 °	38.368118 °
				-121.551509 °	-121.551509 °
DWR ID	DWR_RD0150_03_s_2012_48				
Action/Comments					
Debris					

No Photos

LM Start	4.35	Rating **	N	Issue No.	37
LM End	4.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.373319 °	38.373319 °
				-121.550836 °	-121.550836 °
DWR ID	DWR_RD0150_03_s_2012_37				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_37\_20141021\_00030.jpg



View of tree stumps on the waterward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	4.46	Rating **	M	Issue No.	51
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374269 °	38.374269 °
				-121.549385 °	-121.549385 °
DWR ID	DWR_RD0150_03_s_2012_51				
Action/Comments					
Prunings					

Photo 1 of 4 : FA\_2014\_RD0150\_17\_51\_20141021\_00043.jpg



Remove pruning pile on landward slope at LM 4.46.

Photo 2 of 4 : FA\_2014\_RD0150\_17\_51\_20141021\_00044.jpg



Prunings were found on the landside of the levee looking downstream.

Photo 3 of 4 : FA\_2014\_RD0150\_17\_51\_20141021\_00045.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	<b>4.46</b>	Rating **	M	Issue No.	<b>51 (cont)</b>
LM End	<b>4.46</b>	Issue Type +	Ma	Location *	LS

LM Start	<b>4.46</b>	Rating **	M	Issue No.	<b>51 (cont)</b>
LM End	<b>4.46</b>	Issue Type +	Ma	Location *	LS

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	4.46	Rating **	M	Issue No.	51 (cont)
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374269 °	38.374269 °
				-121.549385 °	-121.549385 °
DWR ID	DWR_RD0150_03_s_2012_51				
Action/Comments					
Prunings					

Photo 4 of 4 : FA\_2014\_RD0150\_17\_51\_20141021\_00046.jpg



Updated picture of the pruning pile on the landside of the levee looking upstream during the fall 2013 inspection.

LM Start	4.51	Rating **	C	Issue No.	52
LM End	4.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374267 °	38.374267 °
				-121.548441 °	-121.548441 °
DWR ID	DWR_RD0150_03_s_2012_52				
Action/Comments					
Tree or limb					

No Photos

LM Start	4.57	Rating **	M	Issue No.	80
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.374355 °	38.374355 °
				-121.547436 °	-121.547436 °
DWR ID	DWR_RD0150_03_s_2014_80				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_80\_20141021\_00083.jpg



View of an erosion site on the waterside toe of the levee looking upstream.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



# Reclamation District No. 0150 Merrit Island

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**Flood Control Project Maintenance  
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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	5.22	Rating **	M	Issue No.	941
LM End	5.22	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.380779 °	38.380779 °
				-121.540264 °	-121.540264 °
DWR ID	DWR_RD0150_03_s_2012_941				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_941\_20141021\_00105.jpg



View of varying elevations in the crown of the levee at the transition from county road to access road.

LM Start	5.66	Rating **	N	Issue No.	68
LM End	5.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383697 °	38.383697 °
				-121.545201 °	-121.545201 °
DWR ID	DWR_RD0150_03_s_2012_68				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_68\_20141021\_00069.jpg



Tree stump was found on the waterside of the levee looking upstream.

LM Start	5.80	Rating **	N	Issue No.	41
LM End	5.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383969 °	38.383969 °
				-121.542806 °	-121.542806 °
DWR ID	DWR_RD0150_03_s_2012_41				
Action/Comments					
Tree stumps.					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement





**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	6.06	Rating **	M	Issue No.	46
LM End	6.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.386422 °	38.386422 °
				-121.539861 °	-121.539861 °
DWR ID	DWR_RD0150_03_s_2012_46				
Action/Comments					
Pipe					
Inspector Comments: Improperly abandoned pipe through the levee.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_46\_20141021\_00035.jpg



View of an improperly abandoned pipe through the levee looking upstream.

LM Start	6.34	Rating **	N	Issue No.	49
LM End	6.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.389658 °	38.389658 °
				-121.541518 °	-121.541518 °
DWR ID	DWR_RD0150_03_s_2012_49				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_49\_20141021\_00040.jpg



View of tree stumps on the waterward slope.

LM Start	6.49	Rating **	M	Issue No.	62
LM End	6.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.390935 °	38.390935 °
				-121.539369 °	-121.539369 °
DWR ID	DWR_RD0150_03_s_2012_62				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 2 : FA\_2014\_RD0150\_17\_62\_20141021\_00059.jpg



Tree was blocking the visibility on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	6.49	Rating **	M	Issue No.	62 (cont)
LM End	6.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.390935 °	38.390935 °
				-121.539369 °	-121.539369 °
DWR ID	DWR_RD0150_03_s_2012_62				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 2 of 2 : FA\_2014\_RD0150\_17\_62\_20141021\_00060.jpg



Vegetation on the waterside of the levee looking downstream.

LM Start	6.61	Rating **	M	Issue No.	43
LM End	6.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.392172 °	38.392172 °
				-121.538065 °	-121.538065 °
DWR ID	DWR_RD0150_03_f_2012_43				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_43\_20141021\_00033.jpg



Slope instability was found on the waterside of the levee looking downstream.

LM Start	6.64	Rating **	M	Issue No.	83
LM End	6.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.392580 °	38.392580 °
				-121.538059 °	-121.538059 °
DWR ID	DWR_RD0150_03_f_2014_83				
Action/Comments					
Prunings					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_83\_20141104\_00126.jpg



Prunings were found on the landside toe of the levee looking upstream.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	7.02	Rating **	M	Issue No.	79
LM End	7.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.396698 °	38.396698 °
				-121.535406 °	-121.535406 °
DWR ID	DWR_RD0150_03_f_2012_79				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	7.02	Rating **	M	Issue No.	61
LM End	7.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.396655 °	38.396655 °
				-121.535485 °	-121.535485 °
DWR ID	DWR_RD0150_03_s_2012_61				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 4 : FA\_2014\_RD0150\_17\_61\_20141021\_00056.jpg



Erosion was found on the waterside slope of the levee looking downstream. This updated picture was taken during fall 2012 inspection.

Photo 2 of 4 : FA\_2014\_RD0150\_17\_61\_20141021\_00057.jpg



Erosion on the waterside of the levee looking upstream. This picture was taken during spring 2012 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	7.02	Rating **	M	Issue No.	61 (cont)	
LM End	7.02	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.396655 °		38.396655 °
				-121.535485 °		-121.535485 °
DWR ID	DWR_RD0150_03_s_2012_61					
Action/Comments						
Note and monitor erosion site.						

Photo 3 of 4 : FA\_2014\_RD0150\_17\_61\_20141021\_00058.jpg



Erosion was found on the waterside of the levee looking downstream.  
This picture was taken during fall 2011 inspection.

LM Start	<b>7.02</b>	Rating **	M	Issue No.	<b>61 (cont)</b>
LM End	<b>7.02</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : FA\_2014\_RD0150\_17\_61\_20141021\_00055.jpg



Updated erosion site picture on the waterside slope of the levee looking upstream during spring 2011 inspection.

LM Start	7.50	Rating **	N	Issue No.	63
LM End	7.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.402779 °	38.402779 °
				-121.538197 °	-121.538197 °
DWR ID	DWR_RD0150_03_s_2012_63				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2014\_RD0150\_17\_63\_20141021\_00061.jpg



View of a tree stump on the landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	7.60	Rating **	M	Issue No.	935
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.403795 °	38.403795 °
				-121.539205 °	-121.539205 °
DWR ID	DWR_RD0150_03_s_2012_935				
Action/Comments					
Prunings					

Photo 1 of 3 : FA\_2014\_RD0150\_17\_935\_20141021\_00101.jpg



Prunings located on the toe of landward side of the levee. The picture was taken from the crown looking upstream.

Photo 2 of 3 : FA\_2014\_RD0150\_17\_935\_20141021\_00102.jpg



Prunings were found on the landside of the levee looking upstream.

Photo 3 of 3 : FA\_2014\_RD0150\_17\_935\_20141021\_00103.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

LM Start	<b>7.60</b>	Rating **	M	Issue No.	<b>935 (cont)</b>
LM End	<b>7.60</b>	Issue Type +	Ma	Location *	LS

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0150 Merrit Island



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	8.48	Rating **	M	Issue No.	67
LM End	8.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407958 °	38.407958 °
				-121.534583 °	-121.534583 °
DWR ID	DWR_RD0150_03_s_2012_67				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 3 : FA\_2014\_RD0150\_17\_67\_20141021\_00066.jpg



Updated picture of the slope instability on the waterside shoulder looking upstream during spring 2014 inspection.

Photo 2 of 3 : FA\_2014\_RD0150\_17\_67\_20141021\_00067.jpg



Slope instability was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

Photo 3 of 3 : FA\_2014\_RD0150\_17\_67\_20141021\_00068.jpg



Slope instability on the waterside slope of the levee. The picture was taken from the crown looking upstream.

LM Start	<b>8.48</b>	Rating **	M	Issue No.	<b>67 (cont)</b>
LM End	<b>8.48</b>	Issue Type +	Ma	Location *	WS

LM Start	<b>8.48</b>	Rating **	M	Issue No.	<b>67 (cont)</b>
LM End	<b>8.48</b>	Issue Type +	Ma	Location *	WS

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	10/30/2014 10/30/2014	Pavel Kazi

LM Start	8.52	Rating **	M	Issue No.	89
LM End	8.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.408153 °	38.408153 °
				-121.533980 °	-121.533980 °
DWR ID	DWR_RD0150_03_s_2012_89				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 2 : FA\_2014\_RD0150\_17\_89\_20141104\_00128.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during fall 2014 inspection.

LM Start	<b>8.52</b>	Rating **	M	Issue No.	<b>89 (cont)</b>
LM End	<b>8.52</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2014\_RD0150\_17\_89\_20141021\_00086.jpg



View of the rodent hole on the waterside shoulder of the levee looking downstream during the fall 2013 inspection.

LM Start	8.62	Rating **	C	Issue No.	120
LM End	8.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.409287 °	38.409287 °
				-121.532718 °	-121.532718 °
DWR ID	DWR_RD0150_03_f_2013_120				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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# Reclamation District No. 0150 Merrit Island



# Reclamation District No. 0150 Merrit Island

Thin/trim trees to allow for visibility of top 20' of waterward slope at LM 9.51.

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